



BUMA TEC CO., LTD.
BUMA Technical Compressor



High Efficiency Cost Saving Quiet Operation

BUMA SCREW AIR COMPRESSOR

Direct Drive Coupling Type BFD160

BUILT ON TRUST

BFD160

Specification

Surrounding

Atmosphere	760 mmHg
Working Pressure	8.0 kgf/cm ²
Max. Temperature	46 °C

Compressor

Free Air Delivery	26.5 m ³ /min at 8.0 kgf/cm ²
Cooling Method	Air Cooled by Cooling Fan
Outlet Air Temperature	Ambient Temp. +15°C
Operation Control	
Driven Method	Direct Driven

Electric Motor

Rating Power	160 kW (220Hp)
Power Source	AC380V/3-Phase (50Hz)
Start Method	Y-Δ
Pole / RPM	2 pole / 2975 rpm
Service Factor	1.2
IP Class	IP 54
Enclosing	

Others

Oil Volume	85 ℓ
Noise level	85 dBA
Pipe connection	80A
Dimension	2800mm x 1720mm x 1920mm
Weight	4000Kg

Controller

Compressor Controller	Micro Controller
Power Source	AC380V, 3 Phase (Built-in Transformer)
Pressure Control	Continuous Pressure Control by Pressure Sensor
Control Method	loading and unloading
Operation Mode	• Automatic Mode • Continuous Mode • Remote Mode • Schedule Mode (Default: Automatic)

Error Detecting Function & Auto-Control Function (LCD & LED Display)

◆ System Trip and Warning Function	
- Outlet Air Temperature High	
- Main Motor Overload	
- Fan Motor Overload	
- Pressure & Temperature Sensor Fault	
◆ Auto-Control Function	
- Stop Delay Function	
- Re-start Pressure	
- Automatic Start	

Maintenance Function (LCD & LED Display)

◆ Air Filter Change Warning	
◆ Oil Filter Change Warning	
◆ Oil Separator Change Warning	

Operation Status Display (LCD & LED Display)

◆ Outlet Air Pressure	
◆ Outlet Air Temperature	
◆ Operation Mode	
◆ Load / Unload Status	

Statistics Function

◆ Amot Clock (Automatic Time)	
◆ Total Operating Hour	
◆ Load / Unload Hour	
◆ Set Stop Delay Time	

BFD160

Components



Electric Motor x 1unit

Type	Y2-315L-2-160
Rated Power	160 kw (220 HP)
Service Motor	1.2
Electric Source	AC380, 3-Phase, 50 Hz
Mode of Operation	S1, Continuous Operation Mode
Pole / RPM	2-Pole / 2975 rpm at 50Hz
Cooling Method	Built-in Fan Cooled
Lubrication	CHERROM
Starting Method	Start-Delta



Screw Airend x 1unit

Model	3.47.100007
Compression	Oil Flooded 1-Stage Compression
Rotor Combination	5 x 6 (Male * Female)
Pressure Range	5 ~ 13 bar
Operation Speed	2975 rpm

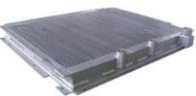


Suction Air Filter x 1unit

Model	BUMA Genuine Filter
Filtration grade	2 μm / Min. 99.8 % (3 ppm)

Lubrication Oil Circulation

Combined Cooler - Aluminum Wing Type Cooler (for Air / Oil Cooling)	1 unit
Oil Filter Housing	1 unit
Oil Filter (BUMA Genuine Filter)	1 unit
Oil Line - Seamless Tubing&O-ring Type Parker Fitting	1 set
Cooling Fan - Low Noise Centrifugal Fan	2 unit
Fan Motor (AC380V)	2unit



Instrument Panel

Controller (BUMA Controller)	1 unit
Pressure Sensor - Pressure Range : 0 ~ 16 kgf/cm2 - Power Source : DC 24V - Analog Output : DC 0.1 ~ 10 V	1 unit
Temperature Sensor - Outlet Air Temperature	1 unit
Pressure Switch - No. 1: Detecting Compressor Sump Pressure - No. 2: Stand-by for Failure of Pressure Sensor	1 unit
Main EOCR - For Detecting Main Motor Overload	1 unit
Fan EOCR - For Detecting Fan Motor Overload	1 unit
Display LED (Trip) - Main Motor Overload - Discharge Air Temperature High	1 set
Display LED (Warning) - Filter Change - Discharge Temperature High	1 set
Operation Status - LED and Lamp Display (Mode, Load/Unload)	1 set
Start Box - Including Transformer and Converter - Control : DC24V, AC220V	1 set
Emergency Switch	1 unit



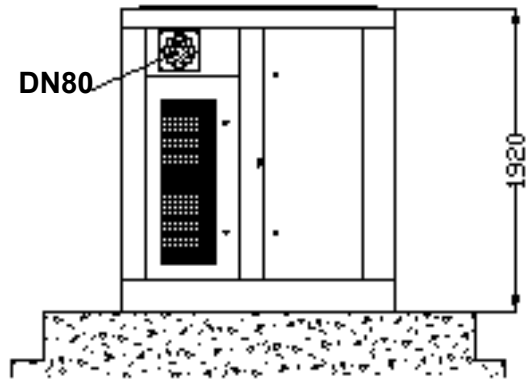
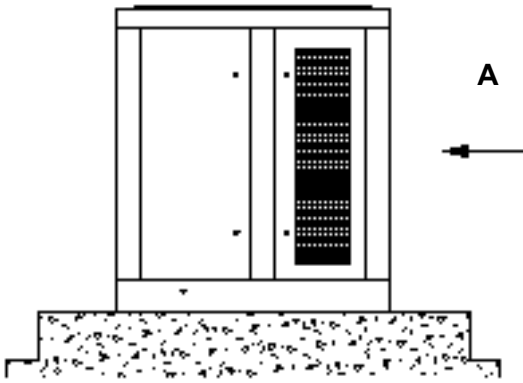
Pneumatic & Electric Valves

Intake Valve (RH-120F DN120)	1 unit
Thermostatic Valve (A4024U-160)	1 unit
Minimum Pressure Valve (H46F-16Z)	1 unit
Solenoid Valve - For Controlling Intake Valve and Purge Valve	1 unit
Safety Valve - A28X-16T (DN20)	1 unit
Purge Valve (HX)	1 unit

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Appearance Drawing

Unit: mm

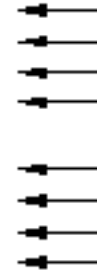
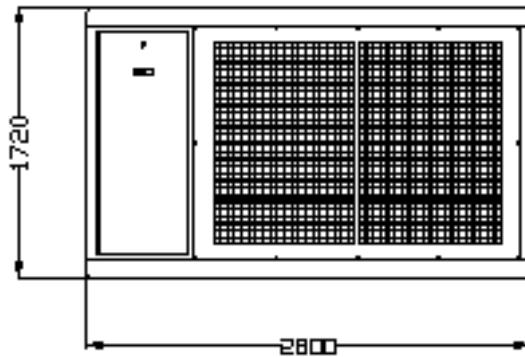


Cooling Wind Suction



Dimension

- Length : 2,800 mm
- Width : 1,720 mm
- Height : 1,920 mm
- Weight : 4000 Kg



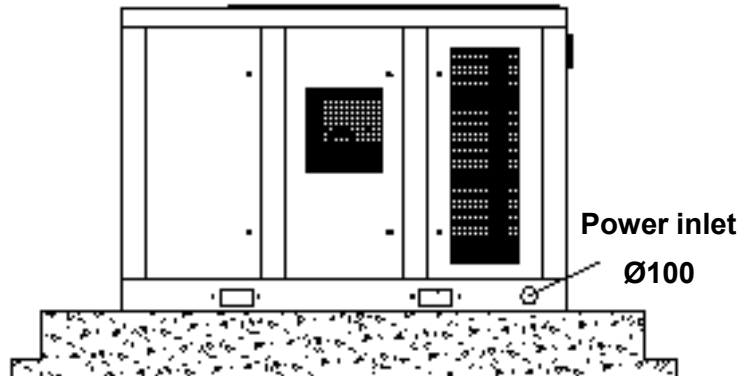
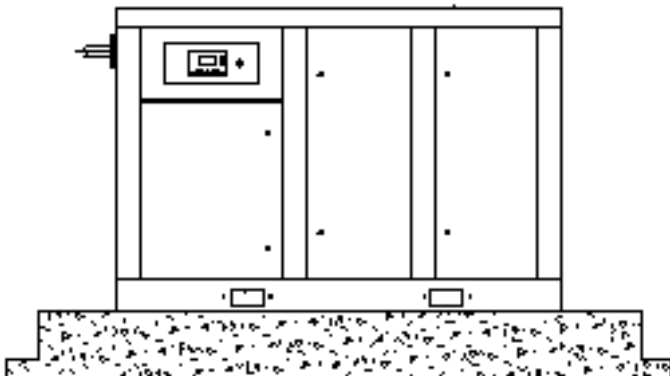
Cooling Wind Suction

Cooling Wind Discharge



View A

Air Delivery Pipe



The specifications of this machine are subject to change for improvements.

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